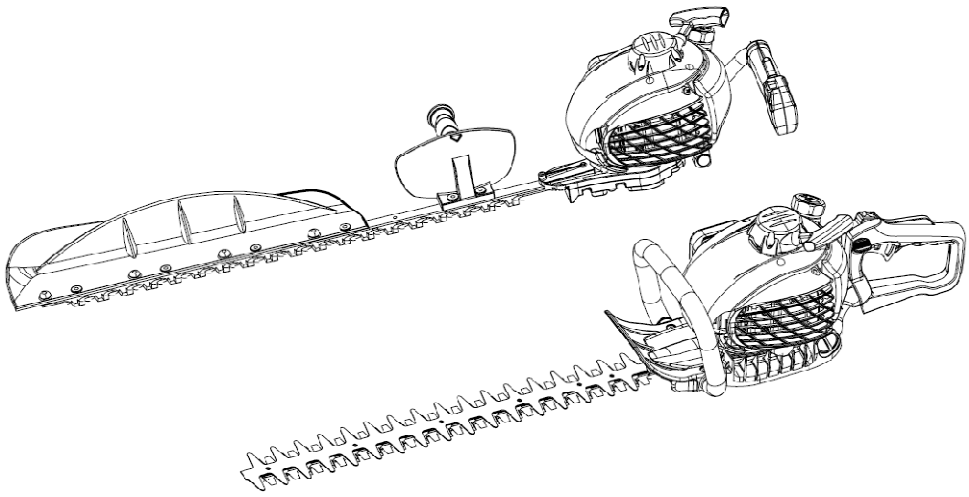
OWNER'S MANUAL

PETROL HEDGE TRIMMER
6000HTDX & 7000HTSX

USER MANUAL, MAINTENANCE INSTRUCTIONS AND SPARE PARTS

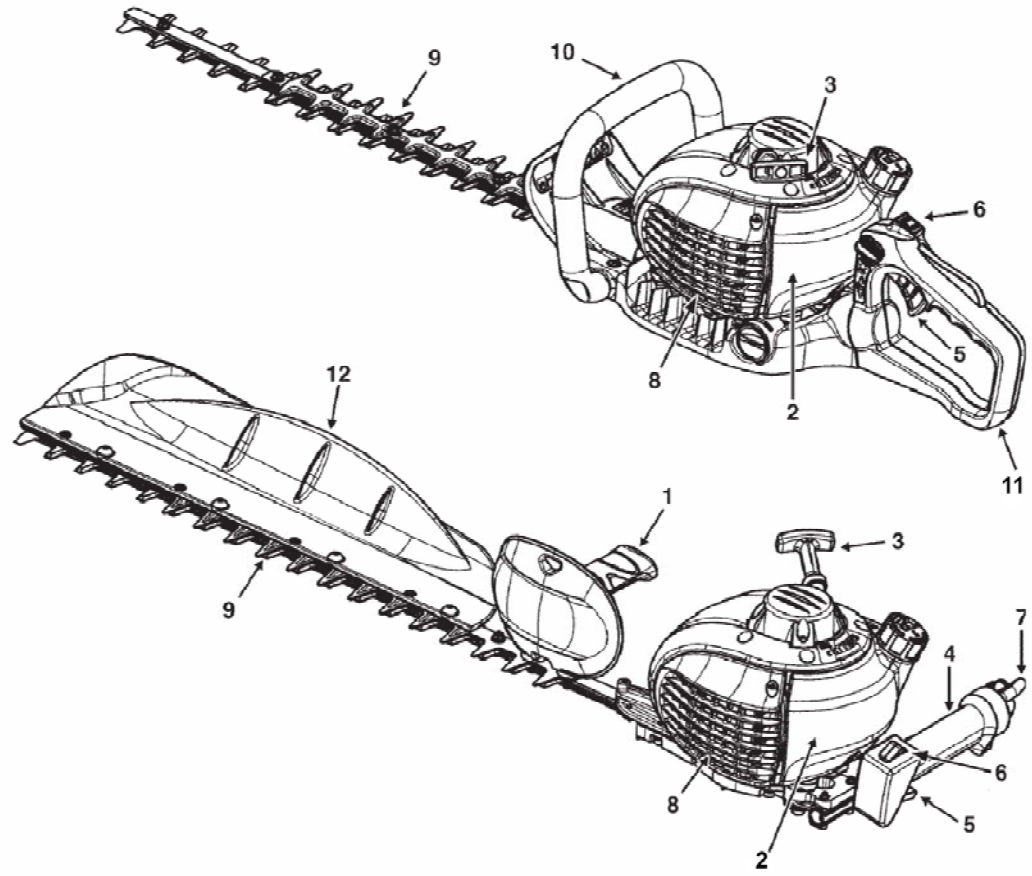


READ THIS MANUAL CAREFULLY BEFORE OPERATING THE MACHINE

WARNING:

THIS SYMBOL INDICATES IMPORTANT SAFETY PRECAUTIONS

Description



1. Front handle
2. Fuel tank
3. Starter
4. Rear handle
5. Throttle lever
6. Engine switch
7. Throttle cable
8. Muffler
9. Blade
10. Front handle
11. Rear handle
12. Plate receive

TABLE OF CONTENTS

WARNINGS IN THE MANUAL 3

SAFETY SYMBOLS 3

TAKING CARE OF WARNING LABELS 4

EXPLANATION OF SYMBOLS ON THE MACHINE 4

SAFETY PRECAUTIONS 4

INTRODUCTION 4

WORK CLOTHING AND SAFETY EQUIPMENT 5

SAFETY AND OPERATION 5

SAFE HANDLING OF FUEL 5

BEFORE OPERATING THE HEDGE TRIMMER 6

BEFORE STARTING THE ENGINE 6

AVOID NOISE PROBLEMS 6

SAFETY WHEN USING THE HEDGE TRIMMER 6

TWO-STROKE FUEL 7

FUEL STORAGE 7

FUELLING 7

OPERATION 8

STARTING THE ENGINE. 8

COLD ENGINE STARTING 8

HOT ENGINE STARTING 9

STOPPING THE ENGINE 9

REAR HANDLE FITTED TO THE 6000HTDX 10

TRANSPORTATION 10

HEDGE TRIMMING TECHNIQUES 11

VERTICAL CUT: 11

HORIZONTAL CUT: 11

MAINTENANCE 12

SAFETY LOCK 12

GEARBOX 13

FUEL FILTER 13

SPARK PLUG 13

AIR FILTER 13

CARBURETTOR 14

TROUBLESHOOTING 14

MAINTENANCE SCHEDULE 15

SPECIFICATION 15

CONDITIONS OF WARRANTY 16

WARNINGS IN THE MANUAL

⚠WARNING

- This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious bodily injury or death.

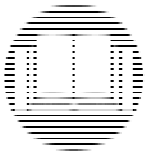
IMPORTANT

- This mark indicates instructions which must be followed or it leads to mechanical failure, breakdown, or damage.

NOTE

- This mark indicates hints or useful directions in the use of the product.

SAFETY SYMBOLS



(1) Read operator's instruction book before operating this machine.

(2) Appropriate ear, eye, and head protection must be worn.

(3) Handling this machine improperly could result in accidents causing serious injury or death. Read this manual carefully and practice using the hedge trimmer until you are fully acquainted with all operations and have learned to use it correctly.

(4) This is extremely sharp and can easily cause cuts.

(5) Directive 2000-14/CE. Guaranteed noise levels**.**

(6) Danger: risk of exhaust fumes intoxication.

TAKING CARE OF WARNING LABELS

- Always keep warning labels clean and free of scratches, which might make them illegible or difficult to read. If the warning labels provided with your hedge trimmer become damaged, peel off, or otherwise become illegible or difficult to read, order new labels from the authorised servicing dealer and replace the damaged labels. When applying new labels, first wipe away any dirt and dry the surface before applying the new label in the same place as the original label.

EXPLANATION OF SYMBOLS ON THE MACHINE

- **For safe operation and maintenance, symbols are carved in relief on the machine:**

FUEL TANK
Fuel tank 2 stroke mix
Position: Fuel cap

CHOKE OPERATION
Starting mode when the engine is hot (choke off).
Position: Air cleaner cover.

Starting mode when the engine is cold (choke on).
Position: Air cleaner cover.

SAFETY PRECAUTIONS

INTRODUCTION

- Read this Owner/Operator Manual carefully. Be sure you understand how to operate this hedge trimmer properly before you use it. Failure to do so could result in serious injury.
- Keep this manual handy so that you may refer to it later whenever any questions arise. Also note that you are able to contact the dealer from whom you purchased the product for assistance.

- Always include this manual when selling, lending, or otherwise transferring the ownership of this product.
- This product has been designed to be used as a hedge trimmer and it should never be used for any other purpose, doing so could result in unforeseen accidents and injuries occurring.
- This hedge trimmer is equipped with extremely sharp blades, always wear sturdy gloves when handling the blades.
- When using this hedge trimmer for the first time, take the hedge trimmer to a wide, clear, open space, start the engine, and practice handling the hedge trimmer until you are sure that you will be able to handle it properly in actual operation.

- You should never use this hedge trimmer when under the influence of alcohol, suffering from exhaustion or lack of sleep, suffering from drowsiness as a result of having taken medicine, or at any other time when your judgment might be impaired or that you might not be able to operate the hedge trimmer properly and in a safe manner.
- Never allow children or anyone unable to fully understand the directions given in this manual to use this hedge trimmer.
- When planning your work schedule, allow plenty of time to perform the work and allow plenty of time for rest. Limit the amount of time you continuously use the hedge trimmer to 30~40 minutes per session, and take 10~20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day to 2 hours.
- Avoid running the engine indoors the exhaust gases contain harmful carbon monoxide.

Never use the Hedge Trimmer in conditions as described below:

- When the ground is slippery or when other conditions exist which might make it difficult to maintain a steady posture while using the hedge trimmer.
- At night, at times of heavy fog, or at any other times when your field of vision is limited and it would be difficult to gain a clear view of the area where the hedge trimmer is to be used.
- In heavy rain, during lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use this product.
- Lack of sleep, tiredness, or physical exhaustion results in lower attention spans, and this in turn can lead to accidents and injury.

WORK CLOTHING AND SAFETY EQUIPMENT

When using the product, you should wear proper clothing and protective equipment.

- Helmet
- Protection goggles or face protector
- Ear protectors
- Thick work gloves
- Non-slip sole work boots

SAFETY AND OPERATION

⚠ WARNING

- This hedge trimmer is equipped with very sharp blades, and when used incorrectly the blades can be extremely dangerous.
- Improper handling can cause accidents which may in turn lead to serious injury or death. For this reason, you should always be careful to adhere to the following instructions when using your hedge trimmer
- Never hold the hedge trimmer in a way in which the blades are pointing towards someone else.
- Never allow the blades to come into contact with your body.
- Always turn off the engine before adjusting the hedge trimmer, removing branches which have become stuck in the blades, or at any other time when coming into close proximity with blades.
- Always wear thick work gloves when adjusting the hedge trimmer.
- Always place the blade cover provided over the blades when not in use.
- Falling branches may fall onto the operator's body or head, resulting in injuries, scratches, and cuts, and for this reason you should always wear a helmet when operating the hedge trimmer.

⚠ WARNING

SAFE HANDLING OF FUEL

- The engine of the hedge trimmer is designed to run on a two-stroke oil/fuel mixture. This fuel is highly flammable, never store cans of fuel or refill the fuel tank in any place where there is a source of heat or fire which might ignite the fuel.
- Do not smoke whilst operating the hedge trimmer or refilling, keep lit cigarettes away from the hedge trimmer at all times.

- When refilling the fuel tank always stop the engine first and carefully make sure that there are no sparks or open flames anywhere nearby before refuelling.
- If any fuel spillage occurs during refuelling, use a dry rag to wipe any fuel which has been spilled onto the hedge trimmer before starting the engine.
- After refuelling, screw the fuel cap back tightly onto the fuel tank and carry the hedge trimmer to a spot 5 metres or more away from where it was refuelled before starting the engine.

BEFORE OPERATING THE HEDGE TRIMMER

- Before beginning work, carefully check the work area and remove any obstacles.
- Within a perimeter of 15 metres of the work area should be considered a hazardous area into which no-one should enter while the hedge trimmer is being used, and when necessary this area should be marked with a warning rope, warning signs, or other forms of warning.
- When work is to be performed simultaneously by two or more operators, care should also be taken to constantly look around to check the presence and locations of other operators within the work area to maintain a safe distance between each operator.
- Before beginning work, each component of the hedge trimmer should be checked to make sure that it is in proper working order, make sure that there are no loose screws or bolts, fuel leaks, ruptures, dents, or any other problems which might interfere with safe operation. Be especially careful to check that there is no damage to the blades.
- Keep all parts of your body away from the hedge trimmer blades when the engine is running.

BEFORE STARTING THE ENGINE

- Carefully check the work area to make sure that no obstacles exist within a perimeter of 15 metres around the hedge trimmer before starting the engine.
- To start the engine, place the hedge trimmer onto the ground in a flat clear area and hold it firmly in place to ensure that neither the blades or the throttle come into contact with any obstacles when the engine starts.
- After starting the engine, make sure that the blades stop moving when the throttle trigger is released (idle). If the blades continue to move when the engine is at idle, adjust the idle screw on the carburettor to a point where the blades stops moving, if this cannot be achieved, take the hedge trimmer to your authorised servicing dealer for adjustment.

AVOID NOISE PROBLEMS

- Check and follow the local regulations for sound levels and hours of operation for garden machinery.
- In general, operate hedge trimmers between 8 am, and 5 pm on week days and 9 am to 5 pm at weekends.
- Avoid using the hedge trimmer late at night and/or early in the morning.

SAFETY WHEN USING THE HEDGE TRIMMER

- When using the hedge trimmer, grip the handles firmly with both hands, place your feet slightly apart so your weight is distributed evenly across both legs, and always maintain a steady even posture while working.
- Maintain full engine speed when cutting.
- Never allow other persons to come within the work area as doing so might expose them to danger.
- Keep work area clear of all persons, particularly small children and pets. Injury may result from flying debris.
- If a branch or other object get caught in the hedge trimmer during operation, always stop the engine before removing the object.
- To protect yourself against injury from falling branches, wear the required safety equipment.
- Never touch the spark plug or plug HT cable while the engine is in operation, doing so may result in an electrical shock.
- Never touch the exhaust, spark plug, or any metallic parts while the engine is in operation or immediately after shutting down the engine. These parts reach high temperatures during operation and doing so could result in serious burns.
- When you finish cutting in one location and wish to continue work in another area, stop the engine, place the protective cover over the blades, and turn the hedge trimmer so that the blade faces behind your body before carrying it to the new location.
- Always remove fuel from the fuel tank before transportation to prevent fuel spillage.
- Never leave the hedge trimmer exposed to direct sunlight as this can heat the fuel tank and may cause a discharge of fuel, and flood the engine.

TWO-STROKE FUEL

WARNING

- **Fuel is very flammable. Do not smoke or bring any flame or sparks near fuel. Always stop the engine and allow it cool before refuelling. Refuel outdoors on bare ground, restart engine at least 5m away from the refuelling stop.**

- The engine is lubricated by oil mixed into petrol. Prepare a mixture of unleaded petrol and semi-synthetic two-stroke oil that meets the specifications of: *API TC, ISO-L-EGC, JASO FC (Low Smoke) oil.*

Recommended mixing ratio is 32:1.

- **FUEL WITH NO OIL (RAW PETROL) will cause severe damage to the engine which is not covered by manufacturer's warranty.**
- Use fresh, unleaded petrol (95 RON) and semi-synthetic oil specially made for high performance two-stroke engines. Mix in a ratio of **32 parts petrol to 1 part of oil**.
- By using two-stroke oil specially made for two-stroke engines you will reduce the formation of ash and carbon deposits on the spark plug, piston, exhaust muffler and cylinder as well as reducing emissions of harmful exhaust gases.
- Oil FOR 4-CYCLE ENGINES should not be used as two stroke lubrication oil as it can cause fouling of the spark plug, exhaust port blocking, piston ring sticking and other internal engine damage.

FUEL STORAGE

- Mixed two-stroke fuel which has been left unused for a period of one month or more may damage the carburettor and result in the engine failing to start or operate correctly.
- When storing the hedge trimmer for a period of more than one month, empty the fuel tank, and run the engine to empty the carburettor of fuel.
- Two stroke fuel can cause deterioration of rubber and/or plastic components during prolonged storage.
- It is important to only use good quality, fresh fuel mix.

FUELLING

- Shake the fuel container to thoroughly mix the two-stroke oil and petrol.
- Clean dirt from around the fuel cap before removing.
- Pour two-stroke fuel into the fuel tank with a filtered funnel, up to 80% of the fuel tanks capacity.
- Replace the fuel cap and tighten securely. Spilled fuel must be wiped away from the hedge trimmer before starting the engine.
- Move at least 5m away from the refuelling area before restarting the engine.

WARNING

- When refilling the tank, always turn off the engine and allow it to cool down. Take a careful look around to make sure that there are no sparks or open flames anywhere nearby before refuelling.

OPERATION

⚠WARNING

- **Keep clear of the blades as they may start moving when engine starts.**

STARTING THE ENGINE.

- **CAUTION** do not pull the starter cord all the way out and do not let go of the starter handle when the cord is extended, this can damage the starter mechanism.

COLD ENGINE STARTING

- Rest the unit on a flat, firm surface. Keep the blades off the ground and clear of surrounding objects as they may start moving upon starting of the engine.
- Push the air purge bulb **a** Fig 1 until fuel is visible in the clear return fuel line.

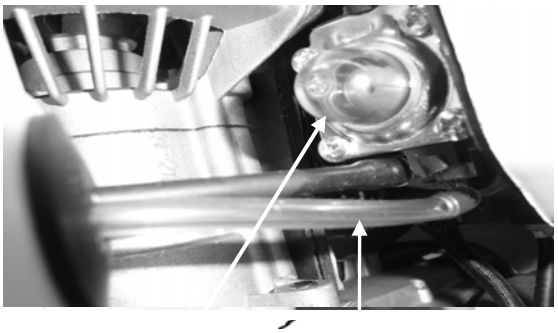


Fig 1, (a) air purge bulb (b) clear tube

- Move the choke lever to the closed position **"c"** Fig 2.

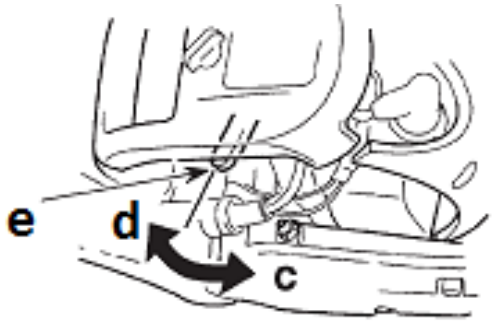
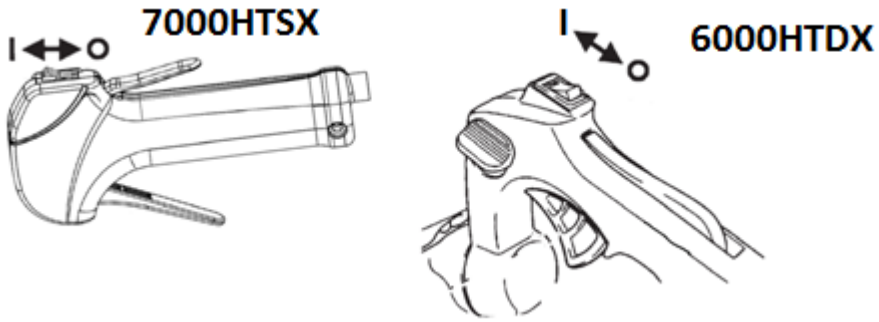


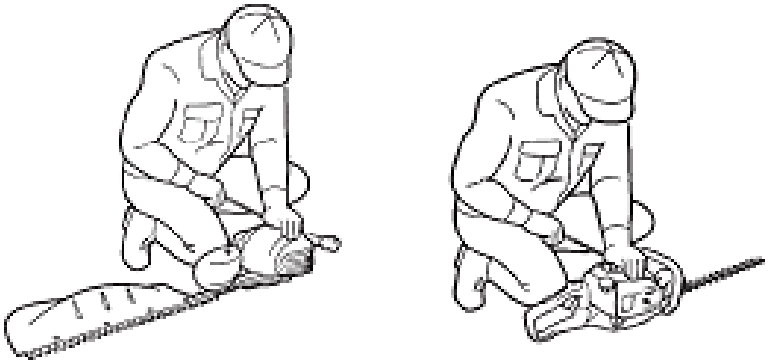
Fig 2, (e) choke lever, (d) open (c) closed

- Set the ignition switch to the start position **"I" (**RUN**)** Fig 3.

Fig 3,



- While holding the unit firmly, pull out the starter rope firmly until engine fires (indicated by a cough from the engine).



- Move the choke lever to the open position **"d"** Fig 2.
- Pull the starter rope until the engine starts.
- Allow the engine to warm up before use. When cutting, always use the hedge trimmer on full throttle.

HOT ENGINE STARTING

- Set the ignition switch to the start position **"I" (**RUN**)** Fig 3.
- Pull the starter rope until the engine starts.
- If the engine does not start after 5 pulls, use the cold start procedure.

NOTE

OVERCHOKING

- Should the engine become flooded due to overchoking, **turn the ignition switch off**, unscrew the spark plug, wipe it dry or replace, pull the recoil starter several times without the spark plug in place and with choke in the open position. This will help clean and ventilate the combustion chamber.

STOPPING THE ENGINE

- Set the engine to idling by releasing the throttle lever.
- Set the ignition switch to the off position **"O"** (STOP) Fig 3.
- If the engine fails to stop, set the choke lever to the closed position to stall the engine; do not use the machine until the ignition switch is repaired.

RUNNING IN

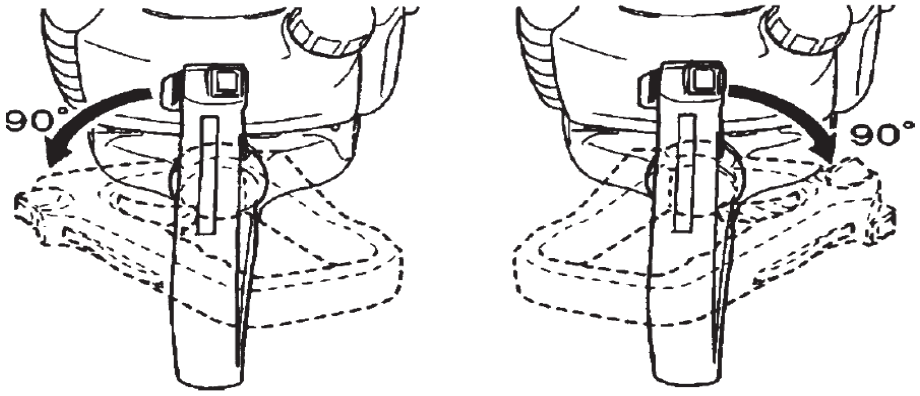
- During the first ten hours of work, avoid running the engine at maximum speed for a prolonged period until all the components have bedded in, after the engine has been run in, it will reach its maximum power.

IMPORTANT

- **After every use, check that all nuts bolts and screws are securely fastened and tighten if necessary.**

REAR HANDLE FITTED TO THE 6000HTDX

- To reduce fatigue when trimming hedges, the handle can be swivelled through 90° to the left or right.



NOTE

- **Do not use the throttle during this operation!**
- **Proceed as follows:**

- Free the handle by pressing the locking lever **2** Fig 4.
- Turn the handle **1** Fig 4 until the locking lever clicks into place.
- When the handle is locked in its new position, you can apply the throttle again.

Fig 4, (1) handle (2) locking lever

TRANSPORTATION

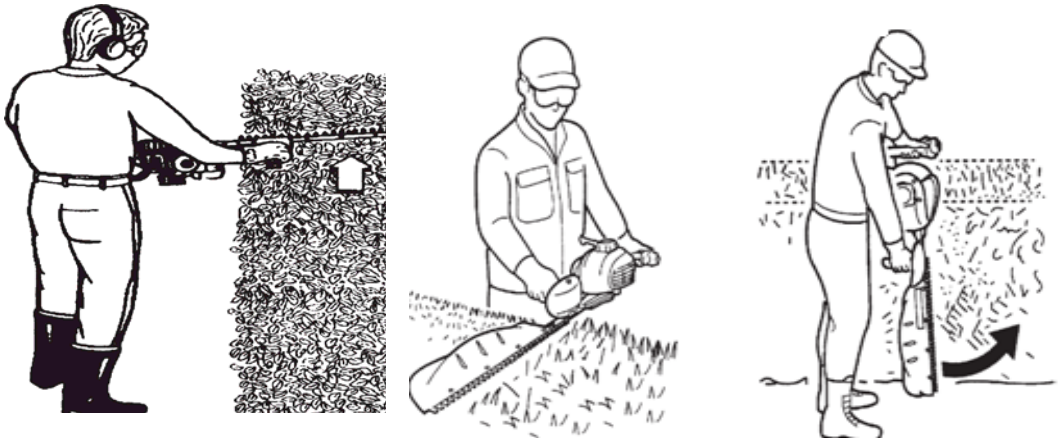
- When transporting or storing the machine always fit the blade guard.

HEDGE TRIMMING TECHNIQUES

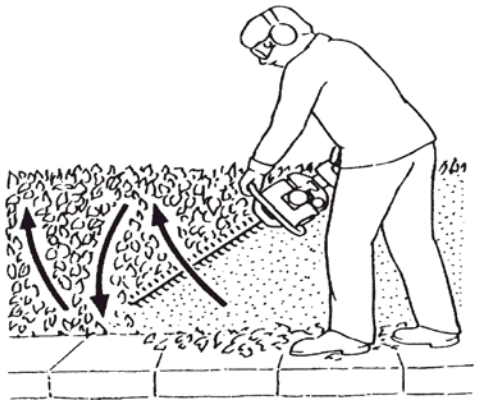
- Trim the sides of a hedge first, and then the top.

VERTICAL CUT:

- With the single-sided blade hedge trimmer, model 7000HTSX always cut from the bottom up.



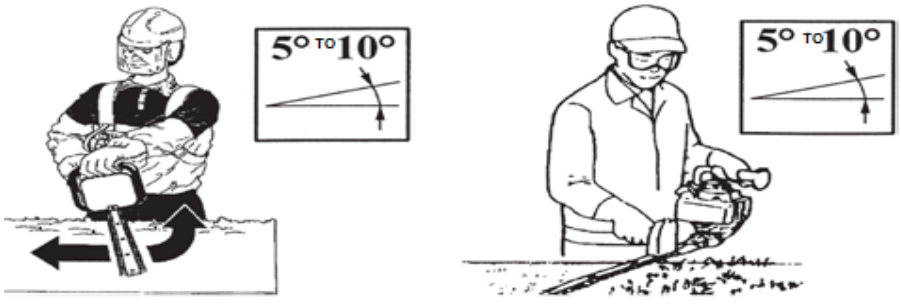
- With the 2-sided blade model 6000HTDX use an arcing cut from the bottom upwards, then downwards to use both sides of the blades.



HORIZONTAL CUT:

- In order to get the best cutting results, slightly tilt the blade 5 to 10° towards the cutting direction.

- Cut



The hedge trimmer must only be used to trim hedges or small bushes. It is not to cut other types of material. Do not use the hedge trimmer as a lever to lift, move or break objects.

- Avoid cutting thick branches, which will damage the blades and shorten the life of the drive system.
- Always keep your body to the carburettor side of your trimmer, never on the muffler side.

MAINTENANCE

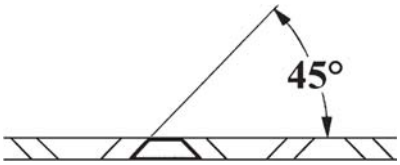
⚠WARNING

- Make sure the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury. Always wear heavy-duty gloves when handling the blades.

Blades

- Check blades for damage before using the hedge trimmer.
- Clean any residue from the blades using a cleaning agent.
- Lubricate the blades with spray oil before and after use.

SHARPENING



- Always keep the file at an angle of 45° to the blade, and always file in the direction of the cutting edge.
- Note: files cut only in one direction; lift the file from the blade when returning to start a new pass.
- Remove as little material as possible.
- Do not try to sharpen a damaged blade: change it or take it to a service dealer.

SAFETY LOCK

- The safety lock is to prevent the throttle lever from accidentally being engaged.
- The throttle lever **2** Fig 8 can only be operated, if the safety lock **1** is held down.
- Check if the safety lock and throttle lever returns to its original position and the engine returns to idling when you release your hand from handle.
- Any defects, contact your nearest service agent for repairs before using the machine.

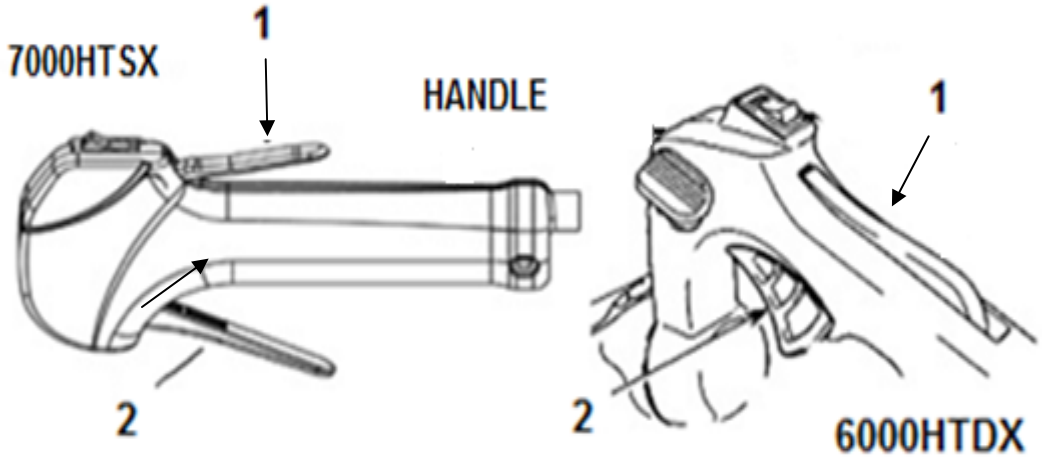


Fig8,

GEARBOX

- Every 15 hours of operation apply 3 pumps of grease using a grease gun and a lithium multi purpose grease, do not force grease into the gearbox (Fig 9) as too much pressure will damage the seals.

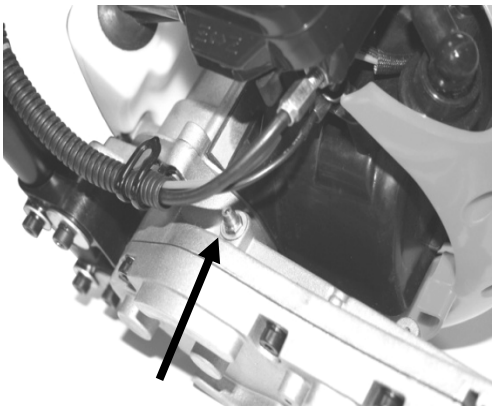


Fig 9, Grease nipple

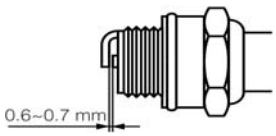
Fig 10, Fuel Filter

FUEL FILTER

- Every 15 hours of operation using a wire hook, take the fuel filter from the fuel tank Fig 10 and clean or replace with a new fuel filter.

SPARK PLUG

- Poor starting or misfiring is often caused by a fouled or defective spark plug, clean and reset the gap to 0.65 mm, or replace the spark plug with NGK: BPRM7A as necessary.



AIR FILTER

- Before using the hedge trimmer, check the air filter Fig 11. Being clogged, will reduce the engine performance.
- Clean the filter element in warm, soapy water, dry completely before installing. If the element is broken or shrunk, replace with a new one.

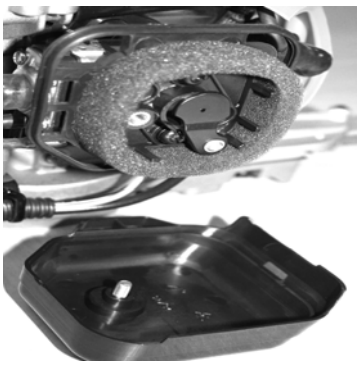
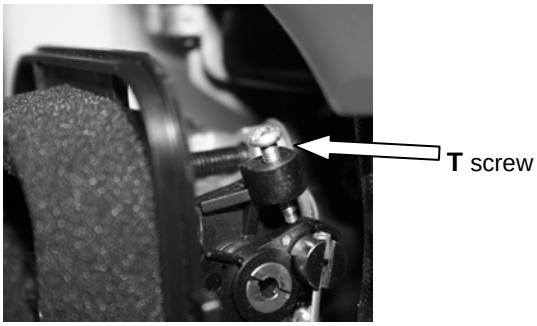


Fig 11, Air filter

CARBURETTOR

- The carburettor mixture setting has been set at the factory and will not need adjusting.
- Adjusting the idle speed Fig 12, if adjustment is necessary turn the **T** screw clockwise until the blades start to move, then turn the screw **T** anticlockwise until the blades stop.

Fig 12,



⚠WARNING

- **If the idle speed cannot be adjusted to stop the blades moving at idle, contact your dealer for repair before use.**

STORAGE

- Oil the blades to prevent rust.
- Remove the spark plug, pour a small amount of oil into the cylinder. Rotate the crankshaft several times using the starting rope in order to distribute the oil. Put the spark plug back in.
- Remove the fuel from the machine.

TROUBLESHOOTING

Engine will not start, power loss.

- **Check that the fuel tank is not empty. Fill with mixed fuel.**
- **The fuel does not reach the carburettor. Change the fuel filter in the fuel tank.**
- **There is water in the fuel. Drain and clean the fuel system.**
- **The air filter is dirty. Clean or replace the air filter.**
- **There are carbon deposits in the exhaust muffler restricting the engine. Clean or change the muffler.**
- **Spark plug is worn. Replace spark plug.**

MAINTENANCE SCHEDULE

Component	Procedure	Before use	Every 15 Hours use	Every 25 Hours use	Every 50 Hours use	note
Fuel leaks / spillage	**Wipe up**	**X**				
Fuel tank, filter	**Inspect / clean**		**X**			**Replace if necessary**
Idle adjust screw	**See above**	**X**				**Adjust carburettor if necessary**
Spark plug BPMR7A	**Clean and readjust plug gap**			**X**		**GAP .025" (0.6-0.7mm) Replace, if necessary**
Cylinder fins, Intake air cooling vent	**Clean**		**X**			
Muffler, Spark arrestor, cylinder exhaust port	**Clean**				**X**	
Throttle lever, ignition switch	**Check operation**	**X**				
Air filter	**Clean**	**X**				
Screws, nuts, bolts	**Tighten / replace**	**X**				**Not adjustment screws**
Check that the vibration elements are not damaged	**Check operation**	**X**				**Replace if necessary**
Check all nuts and bolts	**Check**	**X**				
Clean and oil the blades	**Clean and oil**	**X**				
Check blades for damage		**X**				**Replace if necessary**

SPECIFICATION

Model
6000HTDX..... .....Double-action type
7000HTSX..... ... ... Single blade
Blade length (from the tip of Gear Case)
7000HTSX / 6000HTDX..... .... 750 / 610 mm
effective cutting length
7000HTSX / 6000HTDX..... 660 / 550 mm

Engine
Model 1E34F-2
Displacement ..... 24.5 cm^3
Carburetor .... Diaphragm type
Ignition system ..... I.C.controlled flywheel magneto
Spark plug ..... NGK BPR7A
Fuel ..... mixture (Petrol 32 : Oil 1)
(using JASO FC or ISO EGC grade oil)
Fuel tank capacity ..... 0.33 L
Starter ..... Recoil starter
Clutch ..... Centrifugal type
Dry weight
7000HTSX / 6000HTDX .....5.3 / 5.4 kg

Specifications are subject to change without notice.

CONDITIONS OF WARRANTY

The manufacturer warrants the product against faulty materials and workmanship for a period of 2 years from the date of first purchase. The warranty is applicable when the product is used in a “home owner” application. If products are used for commercial or professional purposes, the warranty period is for 3 months from the date of first purchase. Warranty does not extend to failure due to fair wear and tear.

The manufacturer undertakes to replace, any spare parts that are classified as defective by an appointed Mitox service dealer. The manufacturer will not accept liability for the replacement of the machine, either partially or wholly, and /or consequential damages and /or interest charges either directly or indirectly.

Warranty does not cover failure due to:

Insufficient maintenance.
Incorrect fuel mixture and stale fuel.
Abnormal use or accidental damage.
Incorrect assembly, adjustment or operation of the product.
Spare parts that are subject to wear e.g. safety parts, blades, blade supports, bearings, cables, guards, deflectors, spark plugs, air filters etc.

Neither does warranty extend to:
Freight and packing costs.
Use of non-genuine spare parts i.e. those from another manufacturer.
Use of the machine for any other purpose than that for which it was designed.
Use and maintenance of the machine in a manner not described in the owner’s manual.

As part of our policy of continuous product improvement, we reserve the right to alter or amend this specification without notice. As a result, the product may differ from the information contained herein but any alteration will only be implemented without notice if it is classified as an improvement to the above specification.

READ THE MANUAL CAREFULLY BEFORE OPERATING THE MACHINE

When ordering spare parts, please quote the part number, this can be found in the parts list included in this manual

Retain the receipt of purchase without which no warranty can be offered.

To find your nearest stockist and authorised service dealer:
www.mitoxgm.co.uk

U.K. IMPORTER

Mitox Garden Machinery
Wincanton Business Park
WINCANTON
Somerset
BA9 9RS
U.K.